

Draw Nbr	Revision Nbr				
IIN-D412-758	D	#SP	0.00	12-11-07	
100			0.00		
*100*	DOCUMENT CONTROL				
DC	Memo		0.00		
Document Control	Photocopy bluefile & type labels per PPP D412-758-015	CHG002			
110	Pick Kit		0.00		
*110*					
Packaging	Memo		0.00		
Packaging					
115	QC4- 100% Inspect kits for completeness		0.00		
*115*					
QC	Memo		0.00		
Quality Control					

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="width:33%;">Skid-tube <input type="checkbox"/></td> <td style="width:33%;">Crosstube <input type="checkbox"/></td> <td style="width:33%;">Water Jet <input type="checkbox"/></td> <td style="width:33%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Unapproved <input type="checkbox"/>																											

FAULT CATEGORY			
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

# Work Order ID 92379

**\*92379\***

Page 2

October-30-12 9:25:22 AM

Item ID: D412-758-015

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Stop

**\*NS2\***

Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Date: 10/29/12 Start Qty: 4.00 **\*4\***

Cust Item ID:

Required Date: 11/16/12 Req'd Qty: 4.00 **\*4\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

**\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

**\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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120

0.00

**\*120\***

Packaging

0.00

Packaging

Memo

Identify and pack for shipping as per PPP D412-758-015

Location: \_\_\_\_\_

PPP Rev: \_\_\_\_\_

130

QC21- Final Inspection - Work Order Release

0.00

**\*130\***

QC

Memo

0.00

Quality Control

31 12/1/08

MLJ 12-11-08

W 12-11-08

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

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# Picklist Print

October-30-12 9:25:21 AM

Page 1

Work Order ID: 92379

Parent Item: D412-758-015

Start Date: 10/29/12

Required Date: 11/16/12

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP rev:A 10.06.21 new issue DD verified by:EC  
DD VERF:JLM

IPP REV:B 12.10.24 ECN 12-669

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN525-10R9 Screw		Purchased	No			110	Each	95.0000	3	129			SP. L
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST343		95							
				122378		95							
D3531-041 Bracket Assembly		Manufactured	No			110	Each	0.0000	1	9x			+3 92275 R
D2464 3/4 Seal		Manufactured	No			110	f	552.0206	1.05	4.4210526			SP. R
6.6" Smb				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST403		552.0206							
				61878		83.6406							
				83543		468.38							
D3525-1 Placard		Manufactured	No			110	Each	6.0000	1	3			SP. L
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST055		6							
				81318		6							
D3645-1 Washer		Manufactured	No			110	Each	24.0000	4	3x			+1/2 SP. L
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST061		24							
				35024		4							
				35025		20							
AN525-10R10 Screw		Purchased	No			110	Each	194.0000	4	4x			8x 8/12 R
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST345		194							
				13536		94							
				19356		100							

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  <div style="display: flex; justify-content: space-around;"> <div> <input type="checkbox"/> Rework  <input type="checkbox"/> Scrap  <input type="checkbox"/> Use-as-is  <input type="checkbox"/> Work Order Update         </div> <div> <input type="checkbox"/> Skid-tube  <input type="checkbox"/> Machining  <input type="checkbox"/> Thermoforming  <input type="checkbox"/> Large Fab         </div> <div> <input type="checkbox"/> Crosstube  <input type="checkbox"/> Small Fab  <input type="checkbox"/> Finishing  <input type="checkbox"/> Composite         </div> <div> <input type="checkbox"/> Water Jet  <input type="checkbox"/> Prod. Eng. Coord.  <input type="checkbox"/> Rec/Store/Packaging  <input type="checkbox"/> Supplier         </div> <div> <input type="checkbox"/> Engineering  <input type="checkbox"/> Quality  <input type="checkbox"/> Other         </div> </div>	
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# Picklist Print

October-30-12 9:25:21 AM

Page 2

Work Order ID: 92379

Parent Item: D412-758-015

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Date: 10/29/12

Required Date: 11/16/12

Start Qty: 4.00

Required Qty: 4.00

**NAS1149DN632J**

Washer

Purchased No

110 Each 144.0000

Location

Loc Qty

Loc Code

298

130

122441

130

ST298

14

118428

14

**NAS1149D0363J**

Washer

Purchased No

110 Each 4,499.0000

Location

Loc Qty

Loc Code

ST294

1586

123248

986

123355

600

ST297

2802

122378

2802

ST298

111

117601

61

119537

33

120308

17

**MS210421106**

Nut

Purchased No

110 Each 374.0000

Location

Loc Qty

Loc Code

315

280

122441

280

ST317

94

122151

94

**MS24693-S29**

Screw

Purchased No

110 Each 68.0000

Location

Loc Qty

Loc Code

ST288

68

103915

68

October-30-12 9:25:21 AM

Shop Packet Print

Page 2

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

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October-30-12 9:25:21 AM

Page 3

Work Order ID: 92379

Parent Item: D412-758-015

Start Date: 10/29/12

Required Date: 11/16/12

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Qty: 4.00

Required Qty: 4.00

**RAM-B-201U-A**

Purchased No

110 Each 14.0000

Socket Arm, 1.75"

Sm 37

## Location

## Loc Qty

## Loc Code

ST391

10

123342

10

ST396

4

121391

4

110 Each 14.0000

2

86 SP.

2x

2x

SP. 86

**RAM-B-202U**

Purchased No

Round Plate Mount, Single 1" Ball

Sm 37

## Location

## Loc Qty

## Loc Code

ST391

10

123342

10

ST396

4

121391

4

110 Each 11.0000

2

2x

2x

SP. 86

**RAM-B-217U**

Purchased No

Round Plate Mount, Dual 1" Ball

Sm 37

37

## Location

## Loc Qty

## Loc Code

ST382

5

120639

5

ST396

6

121307

2

121391

4

1x

2x

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Shop Packet Print

Page 3

NCR: Yes / No

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October-30-12 9:25:21 AM

Page 4

Work Order ID: 92379

Parent Item: D412-758-015

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Date: 10/29/12

Required Date: 11/16/12

Start Qty: 4.00

Required Qty: 4.00

MS2104213

Nut

Purchased

No

110

Each

2,943.0000

3

9  
12-11-7

5mb  
3y

## Location

## Loc Qty

## Loc Code

316

627

122452

627

ST300

338

117885

32

119017

168

119075

138

ST314

1601

123265

1601

ST317

377

122141

377

129x

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Shop Packet Print

Page 4

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="width:33%;">Skid-tube <input type="checkbox"/></td> <td style="width:33%;">Crosstube <input type="checkbox"/></td> <td style="width:33%;">Water Jet <input type="checkbox"/></td> <td style="width:33%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>																		
Doc/Data <input type="checkbox"/>																											
Equip/Tooling <input type="checkbox"/>																											
Operator <input type="checkbox"/>																											
Material <input type="checkbox"/>																											
Setup <input type="checkbox"/>																											
Other <input type="checkbox"/>																											
Process <input type="checkbox"/>																											
Supplier <input type="checkbox"/>																											
Training <input type="checkbox"/>																											
Unapproved <input type="checkbox"/>																											

FAULT CATEGORY			
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other

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DART AEROSPACE LTD.

IIN-D412-758

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## 5.0 PARTS LIST

QTY -011	QTY -013	QTY -015	Part Number	Description
X			D412-758-011	Bottom Mounted GPS Receiver Gimbal Mount
	X		D412-758-013	Top Mounted GPS Receiver Gimbal Mount
		X	D412-758-015	GPSMAP Top Mounted GPS Receiver Gimbal Mount
1			D3514-041	Bottom Mounted Gimbal Assembly
	1		D3514-043	Top Mounted Gimbal Assembly
			<del>D3531-041</del>	<del>Bracket Assy.</del>
	2	<del>2</del>	<del>D2464-0066</del>	<del>Neoprene Seal</del>
1	1	<del>1</del>	<del>D3525-1</del>	<del>Placard</del>
1			D3527-1	Support Arm
1			D3530-1	Base Plate
1			D3530-3	Mounting Plate
1	1		D3534-1	Doubler
	4	<del>4</del>	<del>D3645-1</del>	<del>Washer</del>
		<del>3</del>	<del>AN525-10R9</del>	<del>Screw</del>
	4	<del>4</del>	<del>AN525-10R10</del>	<del>Screw</del>
3			AN526-632R7	Screw (or MS35206-229)
3		<del>4</del>	<del>NAS1149DN632J</del>	<del>Washer (Alternate p/n: AN960JD6)</del>
2	4	<del>7</del>	<del>NAS1149D0363J</del>	<del>Washer (Alternate p/n: AN960JD10)</del>
3		<del>4</del>	<del>MS21042L06</del>	<del>Nut</del>
1		<del>3</del>	<del>MS21042L3</del>	<del>Nut</del>
4	4		MS24693-S27	Screw
1			MS27039-1-09	Screw
		<del>4</del>	<del>MS24693-S29</del>	<del>Screw</del>
		<del>2</del>	<del>RAM-B-201U-A</del>	<del>Socket Arm, 1.75"</del>
		<del>2</del>	<del>RAM-B-202U</del>	<del>Round Plate Mount, Single 1" Ball</del>
		<del>1</del>	<del>RAM-B-217U</del>	<del>Round Plate Mount, Dual 1" Ball</del>

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Revision: D

Date: 12.08.10